

# Soil Investigation

## Soil Particle Density Data Sheet

**Note:** All measurements should be made without the stopper/cap!!

Date soil is mixed with water: year \_\_\_\_\_ month \_\_\_\_\_ day \_\_\_\_\_

Study Site: \_\_\_\_\_

Horizon number: \_\_\_\_\_

How has the soil been stored since it came out of the oven? \_\_\_\_\_

Other comments: \_\_\_\_\_

		Sample Number		
		1	2	3
Mass of empty flask (g)	(B below)			
Mass of soil + empty flask (g)	(A below)			
Mass of water + soil + flask (g)	(D below)			
Water Temperature (°C)	(F below)			

### Calculation Work Sheet

		Sample Number		
		1	2	3
A	Mass of soil + empty flask (g)			
B	Mass of empty flask (g)			
C	Mass of soil (g) (A – B)			
D	Mass of water + soil + flask (g)			
E	Mass of water (D – A)			
F	Water Temperature (°C)			
G	Density of water (g/mL) (approximately 1.0)			
H	Volume of water (mL) (E/G)			
I	Volume of soil (mL) (100 mL – H)			
J	Soil particle density (g/mL) (C/I)			